Listing and Amendments to the Claims

This listing of claims will replace the claims that were published in the PCT Application:

1. (currently amended) Local radio communication device comprising at least:

- one IP point of access ~~(1c)~~ adapted to communicate at least outwards from the network in IP mode,
- a point-to-point communication module ~~(1a)~~ adapted to communicate at least with a terminal ~~(4, 5)~~ according to at least one point-to-point communication protocol,
- and a first interface ~~(1b)~~ adapted to allow the IP access point ~~(1c)~~ to communicate with the point-to-point communication module ~~(1a),~~

~~**characterized in that**~~ wherein the first interface ~~(1b)~~ is adapted to be presented to an electronic device ~~(2, 3)~~ communicating in IP mode with the IP access point ~~(1c)~~, in the form of at least one virtual port and the said first interface ~~(1b)~~ is adapted to be controlled by the said electronic device by means of control instructions.

2. (currently amended) Local radiocommunication device according to claim 1, ~~in which~~ wherein the point-to-point communication module ~~(1a)~~ is adapted to communicate with the terminal ~~(4, 5)~~ by a serial radio link.

3. (currently amended) Local radiocommunication device according to claim 2, ~~in which~~ wherein the point-to-point communication module ~~(1a)~~ is adapted for communicating with the terminal ~~(4, 5)~~ according to the "BLUETOOTH" protocol by using a predefined serial port profile in the said "BLUETOOTH" protocol.

4. (currently amended) Local radiocommunication device according to ~~any one of the aforementioned claims, in which~~ claim 1, wherein the IP access point ~~(1c)~~ is connected to the Internet network ~~(6)~~.

5. (currently amended) Local radiocommunication device according to claim 4, ~~in which~~ wherein the IP access point ~~(1c)~~ comprises an ADSL interface ~~(1d)~~ suitable for access to the Internet network ~~(6)~~.

6. (currently amended) Local radiocommunication device according to ~~any one of the aforementioned claims, in which~~ claim 1, wherein the IP access point ~~(1c)~~ communicates with a local electronic device ~~(2, 3)~~ in IP mode.

7. (currently amended) Local radiocommunication device according to claim 6, ~~in which~~ wherein the IP access point ~~(1c)~~ communicates in IP mode with the local electronic device ~~(2, 3)~~ by radio channels according to the standard IEEE 802.11.

8. (currently amended) Local radiocommunication device according to claim 6, ~~in which~~ wherein the IP access point ~~(1c)~~ communicates in IP mode with the local electronic device ~~(2, 3)~~ by a link chosen between a USB link and an Ethernet link.

9. (currently amended) Local radiocommunication according to ~~any one of the aforementioned claims~~ claim 6 comprising, moreover, the said electronic device ~~(2, 3)~~ and ~~in which~~ wherein the electronic device ~~(2, 3)~~ is adapted to be connected to a predetermined IP address corresponding to the said access point ~~(1c)~~ during the opening of the said virtual serial link, and thus to control the said first interface ~~(1b)~~ by the "AT" instructions.

10. (currently amended) Local radiocommunication device according to ~~any one of the aforementioned claims, in which~~ claim 6, wherein the first interface ~~(1b)~~ is adapted to be presented to the electronic device ~~(2, 3)~~ communicating with the IP access point ~~(1c)~~, in the form of several virtual serial ports corresponding respectively to several terminals ~~(4, 5)~~ adapted to communicate by radio with the point-to-point communication module ~~(1a)~~.

11. (currently amended) Local radiocommunication device according to ~~any one of the aforementioned claims, in which~~ claim 6, wherein the first interface ~~(1b)~~ is adapted to:

- indicate, to an electronic device ~~(2, 3)~~ communicating with the IP access point, several terminals ~~(4, 5)~~ with which the said point-to-point communication module ~~(1a)~~ can communicate,
- and route the communications between the electronic device ~~(2, 3)~~ and the said terminals ~~(4, 5)~~ according to commands received from the said electronic device communicating with the IP access point ~~(1c)~~.

12. (currently amended) Local radiocommunication device according to claim 11, ~~in which~~ wherein the terminals ~~(4, 5)~~ indicated by the first interface ~~(1b)~~ to the electronic device ~~(2, 3)~~ communicating with the IP access point, are predetermined terminals, recognized in advance by the said interface.

13. (currently amended) Local radiocommunication device according to ~~any one of the aforementioned claims, in which~~ claim 6,wherein the first interface ~~(1b)~~ communicates in IP mode with at least one electronic device by the IP access point, this electronic device being adapted to provide at least one function, and the point-to-point communication module ~~(1a)~~ is adapted to be presented to the terminal ~~(4, 5)~~ as a device providing the said function (printer, computer, website, etc.).

14. (currently amended) Local radiocommunication device according to claim 13, ~~in which~~ wherein the point-to-point communication module ~~(1a)~~ is adapted to be presented to the terminal ~~(4, 5)~~ as several devices providing several functions.

15. (currently amended) Local radiocommunication device according to claim 14, ~~in which~~ wherein the point-to-point communication module ~~(1a)~~ communicates with the said terminal ~~(4, 5)~~ according to the "BLUETOOTH" protocol and is adapted to identify itself in "BLUETOOTH" mode like the said several devices.

16. (currently amended) Local radiocommunication device according to ~~any one of claims 13 to 15, in which~~ claim 13, wherein the point-to-point communication module ~~(1a)~~ is adapted to be presented to the terminal ~~(4, 5)~~ at least like a printer, and to route the data to be printed, received from the terminal ~~(4, 5)~~, to a printer ~~(3)~~ that communicates in IP mode with the IP access point ~~(1c)~~.

17. (currently amended) Local radiocommunication device according to ~~any one of claims 13 to 16, in which~~ claim 13, wherein the point-to-point communication module ~~(1a)~~ is adapted to be presented to the terminal ~~(4, 5)~~ at least like a serial port, and to route a communication initiated by the terminal ~~(4, 5)~~, to an electronic device ~~(2)~~ that communicates in IP mode with the IP access point ~~(1c)~~.

18. (currently amended) Local radiocommunication device according to claim 17, ~~in which~~ wherein the terminal is a personal digital assistant ~~(4)~~, the electronic device is a computer ~~(2)~~ communicating locally in IP mode with the IP access point ~~(1c)~~, the digital assistant ~~(4)~~ and the computer ~~(2)~~ being adapted to mutually update predetermined files according to data contained in the said digital assistant and data contained in the said computer.

19. (currently amended) Local radiocommunication device according to ~~any one of the aforementioned claims, in which~~ claim 17, wherein the first interface ~~(1b)~~ is adapted to:

- indicate, at least to the terminal ~~(4, 5)~~, the entities ~~(2, 3, 6a)~~ with which the said terminal ~~(4, 5)~~ can communicate in IP mode by means of the said IP access point ~~(1c)~~,
- and route at least some communications between the said terminal ~~(4, 5)~~ and the said entities ~~(2, 3, 6a)~~ according to commands received from the said terminal ~~(4, 5)~~.

20. (currently amended) Local radiocommunication device according to ~~any one of the aforementioned claims, in which~~ claim 17, wherein the first interface ~~(1b)~~ is adapted to route at least some communications initiated by the said terminal ~~(4, 5)~~ automatically towards a predetermined entity ~~(2, 3, 6a)~~.

21. (currently amended) Local radiocommunication device according to ~~any one of the aforementioned claims, in which~~ claim 17, wherein the first interface ~~(1b)~~ is adapted to transfer, according to the "OBEX" protocol, objects between an entity ~~(2, 3, 6a)~~ communicating in IP mode with the IP access point ~~(1c)~~, on the one hand, and the said terminal ~~(4, 5)~~ on the other.

22. (currently amended) Local radiocommunication device according to ~~any one of the aforementioned claims, in which~~ claim 17, wherein the first interface ~~(1b)~~ is adapted to transfer, on request, the objects of the terminal ~~(4, 5)~~ between the said terminal ~~(4, 5)~~ and a predetermined storage entity ~~(2, 6a)~~.

23. (currently amended) Local radiocommunication device according to ~~any one of the aforementioned claims, in which~~ claim 17, wherein the first interface ~~(1b)~~ is adapted to transfer, on request, the objects of an electronic device ~~(2)~~ communicating in IP mode with the IP access point ~~(1c)~~ between the said terminal ~~(4, 5)~~ and the said electronic device ~~(2)~~ communicating with the IP access point.

24. (currently amended) Local radiocommunication device according to ~~any one of the aforementioned claims, in which~~ claim 17, wherein the point-to-point communication module ~~(1a)~~, the first interface ~~(1b)~~ and the IP access point ~~(1c)~~ are combined in an Internet communication terminal ~~(1)~~.

25. (currently amended) Local radiocommunication device according to ~~any one of the aforementioned claims, in which~~ claim 17, wherein the said virtual port is a serial port.

26. (currently amended) Local radiocommunication device according to ~~any one of the aforementioned claims, in which~~ claim 17, wherein the said control instructions are instructions of the "AT" type.